

ABSTRACT OF THE DISCLOSURE

An apparatus and method for demultiplexing multiple wavelengths of light. In
5 one embodiment, an optical signal having a plurality of wavelengths is provided to an
optical-to-electrical (OE) circuit configured to convert optical signals into electrical
signals. The optical signal may include a plurality of wavelengths. The OE circuit
converts the optical signal into a first electrical signal. The first electrical signal is
received by a demodulating circuit, which also receives a demodulating signal. The
10 demodulating circuit combines both the first electrical signal and the demodulating signal
in order to produce a second electrical signal. Both the second electrical signal and the
demodulating signal correspond to one of the wavelengths in the optical signal.